

**From:** [R4LIMS](#)  
**To:** [Lattimore, Leigh](#)  
**Cc:** [Turner, Nardina](#); [Lkrebs@otie.com](mailto:Lkrebs@otie.com); [Saskowski, Ronald](#); [gkowsalski@otie.com](mailto:gkowsalski@otie.com); [Wellborn, Floyd](#); [Aker, Sandra](#)  
**Subject:** R4 LIMS Results: Project 19-0482, E193804 TMTL 10 21 19 1436  
**Date:** Monday, October 21, 2019 10:45:18 PM  
**Attachments:** [E193804 TMTL FINAL 10 21 19 1436.PDF](#)  
[E193804 TMTL FINAL 10 21 19 1436 - 19-0482 - WESTSIDE LEAD 10-21-2019.GAN000407160.Dat](#)

---

On Monday, October 21, 2019, results for the following were released by the Region 4 Laboratory:

**Analyses:**

Total Metals (TMTL)

**Project Number:** 19-0482

**Project Name:** Westside Lead

**City:** Atlanta    **County:** Fulton    **State:** GA

**These results were reported by:**

**Floyd Wellborn** ( E-mail: [Wellborn.Floyd@epa.gov](mailto:Wellborn.Floyd@epa.gov) )

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) [Customer Survey Form](#).

**These results are for the following Sample Type(s):**

Soil (Surface Soil)

**PDF DATA RESULTS REPORT FILE ATTACHMENT:**

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

**DATA EXPORT FILE ATTACHMENT:**

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the LSASD PC Hotline at 706-355-8825 or send an email to [r4lims@epa.gov](mailto:r4lims@epa.gov).

**SAMPLE DISPOSAL POLICY:**

Due to limited space for long term sample storage, LSB's policy is to dispose of

samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [R4SampleCustody@epa.gov](mailto:R4SampleCustody@epa.gov).

**\*\*CONFIDENTIALITY NOTICE\*\***

This e-mail is intended only for the use of the specific individual(s) to whom it is addressed. If you are not an intended recipient of this e-mail, you are hereby notified that any use, dissemination or copying of this e-mail or the information contained in it or attached to it is unauthorized. If you have received this e-mail in error, please immediately notify us by reply e-mail to [R4LIMS@epa.gov](mailto:R4LIMS@epa.gov) and then delete this message.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

October 21, 2019

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 19-0482, Westside Lead

**FROM:** Floyd Wellborn  
LSB Inorganic Chemistry Section Chief

**THRU:** Sandra Aker, Chief  
Laboratory Services Branch

**TO:** Leigh Lattimore

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

**Total Metals (TMTL)**

Total Metals

EPA 200.8 (Soil)

ISO

Total Metals

EPA 6010 (Soil)

ISO



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

---

**Sample Disposal Policy**

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [R4SampleCustody@epa.gov](mailto:R4SampleCustody@epa.gov).

cc: Nardina Turner





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 19-0482, Westside Lead**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
WSL-1011C	E193804-01	Surface Soil	9/12/19 14:30	9/18/19 10:10
WSL-1043A	E193804-02	Surface Soil	9/11/19 14:40	9/18/19 10:10
WSL-1052A	E193804-03	Surface Soil	9/11/19 10:30	9/18/19 10:10
WSL-1152C	E193804-04	Surface Soil	9/10/19 12:00	9/18/19 10:10
WSL-1155B	E193804-05	Surface Soil	9/10/19 12:45	9/18/19 10:10
WSL-1155C	E193804-06	Surface Soil	9/10/19 13:05	9/18/19 10:10
WSL-1158C	E193804-07	Surface Soil	9/11/19 12:15	9/18/19 10:10
WSL-1170B	E193804-08	Surface Soil	9/10/19 09:50	9/18/19 10:10
WSL-1170C	E193804-09	Surface Soil	9/10/19 10:10	9/18/19 10:10
WSL-1185A	E193804-10	Surface Soil	9/12/19 15:05	9/18/19 10:10
WSL-1206B	E193804-11	Surface Soil	9/10/19 10:50	9/18/19 10:10
WSL-1206C	E193804-12	Surface Soil	9/10/19 11:05	9/18/19 10:10
WSL-1222B	E193804-13	Surface Soil	9/11/19 13:00	9/18/19 10:10
WSL-1222C	E193804-14	Surface Soil	9/11/19 13:20	9/18/19 10:10
WSL-1255B	E193804-15	Surface Soil	9/10/19 13:40	9/18/19 10:10
WSL-1255C	E193804-16	Surface Soil	9/10/19 14:00	9/18/19 10:10
WSL-1271A	E193804-17	Surface Soil	9/12/19 11:20	9/18/19 10:10
WSL-1274A	E193804-18	Surface Soil	9/11/19 09:25	9/18/19 10:10
WSL-1325B	E193804-19	Surface Soil	9/11/19 13:50	9/18/19 10:10
WSL-1325C	E193804-20	Surface Soil	9/11/19 14:10	9/18/19 10:10
WSL-1344B	E193804-21	Surface Soil	9/10/19 14:05	9/18/19 10:10
WSL-1369B	E193804-22	Surface Soil	9/12/19 10:30	9/18/19 10:10



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

### DATA QUALIFIER DEFINITIONS

J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

#### ACCREDITATIONS:

ISO	ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.  Refer to the certificate and scope of accreditation AT-1644 at: <a href="http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd">http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd</a>
NR	The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

**Project: 19-0482, Westside Lead**

**Sample ID:** WSL-1011C

**Lab ID:** E193804-01

**Station ID:** WSL1011C

**Matrix:** Surface Soil

**Date Collected:** 9/12/19 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	1.8		mg/kg dry	0.20	10/03/19 13:38	10/15/19 13:52	EPA 200.8
7439-92-1	Lead	330		mg/kg dry	10	10/03/19 11:05	10/10/19 12:56	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1043A

Lab ID: E193804-02

Station ID: WSL1043A

Matrix: Surface Soil

Date Collected: 9/11/19 14:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.7		mg/kg dry	0.20	10/03/19 13:38	10/15/19 13:56	EPA 200.8
7439-92-1	Lead	490	J, QM-2	mg/kg dry	9.9	10/03/19 11:05	10/10/19 12:59	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1052A

Lab ID: E193804-03

Station ID: WSL1052A

Matrix: Surface Soil

Date Collected: 9/11/19 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.7		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:06	EPA 200.8
7439-92-1	Lead	720		mg/kg dry	20	10/03/19 11:05	10/10/19 13:10	EPA 6010





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1152C

Lab ID: E193804-04

Station ID: WSL1152C

Matrix: Surface Soil

Date Collected: 9/10/19 12:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	7.2		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:10	EPA 200.8
7439-92-1	Lead	330		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:14	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1155B

Lab ID: E193804-05

Station ID: WSL1155B

Matrix: Surface Soil

Date Collected: 9/10/19 12:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.3		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:21	EPA 200.8
7439-92-1	Lead	460		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:17	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1155C

Lab ID: E193804-06

Station ID: WSL1155C

Matrix: Surface Soil

Date Collected: 9/10/19 13:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	8.3		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:24	EPA 200.8
7439-92-1	Lead	440		mg/kg dry	10	10/03/19 11:05	10/10/19 13:21	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1158C

Lab ID: E193804-07

Station ID: WSL1158C

Matrix: Surface Soil

Date Collected: 9/11/19 12:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	8.3		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:28	EPA 200.8
7439-92-1	Lead	390		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:24	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1170B

Lab ID: E193804-08

Station ID: WSL1170B

Matrix: Surface Soil

Date Collected: 9/10/19 9:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.7		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:32	EPA 200.8
7439-92-1	Lead	770		mg/kg dry	10	10/03/19 11:05	10/10/19 13:28	EPA 6010





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1170C

Lab ID: E193804-09

Station ID: WSL1170C

Matrix: Surface Soil

Date Collected: 9/10/19 10:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	3.8		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:35	EPA 200.8
7439-92-1	Lead	410		mg/kg dry	5.9	10/03/19 11:05	10/10/19 13:31	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1185A

Lab ID: E193804-10

Station ID: WSL1185A

Matrix: Surface Soil

Date Collected: 9/12/19 15:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	6.4		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:39	EPA 200.8
7439-92-1	Lead	430		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:35	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1206B

Lab ID: E193804-11

Station ID: WSL1206B

Matrix: Surface Soil

Date Collected: 9/10/19 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.1		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:42	EPA 200.8
7439-92-1	Lead	280		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:46	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1206C

Lab ID: E193804-12

Station ID: WSL1206C

Matrix: Surface Soil

Date Collected: 9/10/19 11:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.3		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:46	EPA 200.8
7439-92-1	Lead	540		mg/kg dry	9.8	10/03/19 11:05	10/10/19 13:49	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1222B

Lab ID: E193804-13

Station ID: WSL1222B

Matrix: Surface Soil

Date Collected: 9/11/19 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	3.1		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:50	EPA 200.8
7439-92-1	Lead	310		mg/kg dry	9.9	10/03/19 11:05	10/10/19 13:53	EPA 6010





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1222C

Lab ID: E193804-14

Station ID: WSL1222C

Matrix: Surface Soil

Date Collected: 9/11/19 13:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.7		mg/kg dry	0.20	10/03/19 13:38	10/15/19 14:53	EPA 200.8
7439-92-1	Lead	370		mg/kg dry	10	10/03/19 11:05	10/10/19 13:56	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1255B

Lab ID: E193804-15

Station ID: WSL1255B

Matrix: Surface Soil

Date Collected: 9/10/19 13:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.1		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:04	EPA 200.8
7439-92-1	Lead	550		mg/kg dry	20	10/03/19 11:05	10/10/19 14:00	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1255C

Lab ID: E193804-16

Station ID: WSL1255C

Matrix: Surface Soil

Date Collected: 9/10/19 14:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	4.8		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:08	EPA 200.8
7439-92-1	Lead	380		mg/kg dry	9.9	10/03/19 11:05	10/10/19 14:03	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1271A

Lab ID: E193804-17

Station ID: WSL1271A

Matrix: Surface Soil

Date Collected: 9/12/19 11:20

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.8		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:11	EPA 200.8
7439-92-1	Lead	350		mg/kg dry	9.8	10/03/19 11:05	10/10/19 14:07	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1274A

Lab ID: E193804-18

Station ID: WSL1274A

Matrix: Surface Soil

Date Collected: 9/11/19 9:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.8		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:15	EPA 200.8
7439-92-1	Lead	260		mg/kg dry	10	10/03/19 11:05	10/10/19 14:10	EPA 6010





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

**Project: 19-0482, Westside Lead**

**Sample ID:** WSL-1325B

**Lab ID:** E193804-19

**Station ID:** WSL1325B

**Matrix:** Surface Soil

**Date Collected:** 9/11/19 13:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	1.0		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:18	EPA 200.8
7439-92-1	Lead	380		mg/kg dry	20	10/03/19 11:05	10/10/19 14:14	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1325C

Lab ID: E193804-20

Station ID: WSL1325C

Matrix: Surface Soil

Date Collected: 9/11/19 14:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.0		mg/kg dry	0.20	10/03/19 13:38	10/15/19 15:22	EPA 200.8
7439-92-1	Lead	290	J, QM-1	mg/kg dry	20	10/03/19 11:05	10/10/19 14:18	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1344B

Lab ID: E193804-21

Station ID: WSL1344B

Matrix: Surface Soil

Date Collected: 9/10/19 14:05

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.6		mg/kg dry	0.20	10/04/19 10:39	10/15/19 15:54	EPA 200.8
7439-92-1	Lead	310		mg/kg dry	9.9	10/04/19 10:38	10/10/19 14:49	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 19-0482, Westside Lead

Sample ID: WSL-1369B

Lab ID: E193804-22

Station ID: WSL1369B

Matrix: Surface Soil

Date Collected: 9/12/19 10:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.8		mg/kg dry	0.20	10/04/19 10:39	10/15/19 15:58	EPA 200.8
7439-92-1	Lead	810	J, QM-1	mg/kg dry	9.9	10/04/19 10:38	10/10/19 14:57	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 1910010 - M 200.2 Metals Soil**

**Blank (1910010-BLK1)**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
------	---	-----	-----------	--	--	--	--	--	--	---

**Blank (1910010-BLK2)**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
------	---	-----	-----------	--	--	--	--	--	--	---

**LCS (1910010-BS1)**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	98.107	2.0	mg/kg dry	100.00		98.1	85-115			
------	--------	-----	-----------	--------	--	------	--------	--	--	--

**Matrix Spike (1910010-MS1)**

**Source: E193804-02**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	680.34	9.9	mg/kg dry	98.658	491.73	191	75-125			QM-2
------	--------	-----	-----------	--------	--------	-----	--------	--	--	------

**Matrix Spike (1910010-MS2)**

**Source: E193804-20**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	374.36	20	mg/kg dry	99.522	291.21	83.5	75-125			
------	--------	----	-----------	--------	--------	------	--------	--	--	--

**Matrix Spike Dup (1910010-MSD1)**

**Source: E193804-02**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	665.57	9.9	mg/kg dry	98.814	491.73	176	75-125	2.19	20	QM-2
------	--------	-----	-----------	--------	--------	-----	--------	------	----	------

**Matrix Spike Dup (1910010-MSD2)**

**Source: E193804-20**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	359.24	20	mg/kg dry	99.582	291.21	68.3	75-125	4.12	20	QM-1
------	--------	----	-----------	--------	--------	------	--------	------	----	------

**MRL Verification (1910010-PS1)**

Prepared: 10/03/19 Analyzed: 10/10/19

**EPA 6010**

Lead	1.9490	2.0	mg/kg dry	2.0000		97.4	70-130			MRL-3, U
------	--------	-----	-----------	--------	--	------	--------	--	--	-------------

**Batch 1910011 - M 200.2 Metals Soil**

**Blank (1910011-BLK1)**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
---------	---	------	-----------	--	--	--	--	--	--	---



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 1910011 - M 200.2 Metals Soil**

**Blank (1910011-BLK2)**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
---------	---	------	-----------	--	--	--	--	--	--	---

**LCS (1910011-BS1)**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	50.084	1.2	mg/kg dry	50.000		100	85-115			
---------	--------	-----	-----------	--------	--	-----	--------	--	--	--

**Matrix Spike (1910011-MS1)**

**Source: E193804-02**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	43.930	1.2	mg/kg dry	49.329	2.6831	83.6	70-130			
---------	--------	-----	-----------	--------	--------	------	--------	--	--	--

**Matrix Spike (1910011-MS2)**

**Source: E193804-20**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	41.299	1.2	mg/kg dry	49.761	2.0120	79.0	70-130			
---------	--------	-----	-----------	--------	--------	------	--------	--	--	--

**Matrix Spike Dup (1910011-MSD1)**

**Source: E193804-02**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	43.956	1.2	mg/kg dry	49.407	2.6831	83.5	70-130	0.0590	20	
---------	--------	-----	-----------	--------	--------	------	--------	--------	----	--

**Matrix Spike Dup (1910011-MSD2)**

**Source: E193804-20**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	41.586	1.2	mg/kg dry	49.791	2.0120	79.5	70-130	0.692	20	
---------	--------	-----	-----------	--------	--------	------	--------	-------	----	--

**MRL Verification (1910011-PS1)**

Prepared: 10/03/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	0.10772	0.10	mg/kg dry	0.10000		108	65-135			MRL-3
---------	---------	------	-----------	---------	--	-----	--------	--	--	-------

**Batch 1910017 - M 200.2 Metals Soil**

**Blank (1910017-BLK1)**

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
------	---	-----	-----------	--	--	--	--	--	--	---

**Blank (1910017-BLK2)**

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
------	---	-----	-----------	--	--	--	--	--	--	---



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1910017 - M 200.2 Metals Soil**

LCS (1910017-BS1)

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	99.292	2.0	mg/kg dry	100.00		99.3	85-115			
------	--------	-----	-----------	--------	--	------	--------	--	--	--

Matrix Spike (1910017-MS1)

Source: E193804-22

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	868.07	10	mg/kg dry	99.681	805.42	62.9	75-125			QM-1
------	--------	----	-----------	--------	--------	------	--------	--	--	------

Matrix Spike Dup (1910017-MSD1)

Source: E193804-22

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	899.53	10	mg/kg dry	99.860	805.42	94.2	75-125	3.56	20	
------	--------	----	-----------	--------	--------	------	--------	------	----	--

MRL Verification (1910017-PS1)

Prepared: 10/04/19 Analyzed: 10/10/19

**EPA 6010**

Lead	2.0889	2.0	mg/kg dry	2.0000		104	70-130			MRL-3
------	--------	-----	-----------	--------	--	-----	--------	--	--	-------

**Batch 1910018 - M 200.2 Metals Soil**

Blank (1910018-BLK1)

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
---------	---	------	-----------	--	--	--	--	--	--	---

Blank (1910018-BLK2)

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
---------	---	------	-----------	--	--	--	--	--	--	---

LCS (1910018-BS1)

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	47.485	1.2	mg/kg dry	50.000		95.0	85-115			
---------	--------	-----	-----------	--------	--	------	--------	--	--	--

Matrix Spike (1910018-MS1)

Source: E193804-22

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	50.772	1.2	mg/kg dry	49.841	5.7729	90.3	70-130			
---------	--------	-----	-----------	--------	--------	------	--------	--	--	--

Matrix Spike Dup (1910018-MSD1)

Source: E193804-22

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	50.757	1.2	mg/kg dry	49.930	5.7729	90.1	70-130	0.0300	20	
---------	--------	-----	-----------	--------	--------	------	--------	--------	----	--



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 1910018 - M 200.2 Metals Soil**

MRL Verification (1910018-PS1)

Prepared: 10/04/19 Analyzed: 10/15/19

**EPA 200.8**

Arsenic	0.11484	0.10	mg/kg dry	0.10000		115	65-135			MRL-3
---------	---------	------	-----------	---------	--	-----	--------	--	--	-------





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 19-0482

Project: 19-0482, Westside Lead - Reported by Floyd Wellborn

**Notes and Definitions for QC Samples**

U	The analyte was not detected at or above the reporting limit.
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits